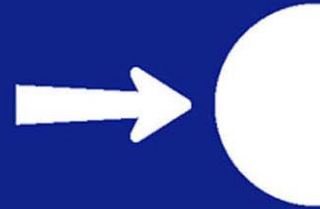


Ensuring Confidence in ILI Methodologies



ROSEN



INSPECTION TECHNOLOGIES

Bryce Brown
Manager of Integrity and Compliance
ROSEN North America

**ILI Methodologies are well –proven and
–established in helping Pipeline Operators ...
ensure Safe, Reliable and Economic
operation of their pipelines and pipeline
systems.**

Ensuring Confidence in ILI Methodologies

- **ILI dates back to mid 60's.**
- **ILI is a mature industry.**
- **Vast strides have been made in the past 15 years.**
- **Development and Introduction of new and more advanced technologies/techniques.**
- **R&D efforts continue based on input/needs of the Operator/Industry.**

Ensuring Confidence in ILI Methodologies

- **ILI Service providers have a major stake in the proper implementation and use of ILI Methodologies.**
- **ILI Service Providers want to be successful for the Operator, in ensuring Safe, Reliable and Economic operation. Both are successful.**
- **Ensuring Confidence in the ILI Methodologies has to be at the forefront.**

Ensuring Confidence in ILI Methodologies

- **ILI Service Providers have Confidence in the ILI Methodologies they employ.**
- **Operators have Confidence in Pipeline Operations and Integrity.**

Having Confidence, means having Understanding.

Q: How do we achieve Understanding?

A: Through Timely, Open and Effective Communication.

How can one achieve an Understanding of ILI Methodologies?

- **Ask the ILI Service Provider ...**

Industry Guidance: Publications

An Introduction to Pipeline Pigging, 5th Edition

The Pigging Products & Services Association

(ISBN 0-901360-33-3)

<http://www.ppsa-online.com/ppsa1.htm>

The Pipeline Pigging Handbook, 3rd Edition

Jim Cordell, Hershel Vanzant (ISBN 0-9526448-1-9)

http://www.clarion.org/cgi-in/Web_store/web_store_db.cgi

Pipeline Pigging & Integrity Technology, 3rd Edition

John Tiratsoo, Editor (ISBN 0-9717945-2-9)

http://www.clarion.org/cgi-in/Web_store/web_store_db.cgi

And others ...

Industry Guidance: Conferences/Workshops/Schools

Clarion

Annual Pipeline Pigging & Integrity Management Conference

Semi-annual courses on: Defect Assessment, Direct Assessment, Pigging & I/I, Stress Corrosion Cracking

American Gas Association

Pipeline Integrity Workshops - 1 or 2 annually

Operations Conference annually, with exhibits in even years

Other workshops annually, e.g. ECDA and ICDA

American Petroleum Institute

Annual Pipeline Conference

NACE International

Annual CORROSION conference

Regional courses from Basic Corrosion, to Internal Corrosion, and other topics - about 20 annually

Regional meetings: 5 regions each hold annual meeting

Pipeline Integrity Management Seminars held twice annually

Direct Assessment (ECDA, ICDA, SCDA) held throughout year

Southern Gas Association

Pigging School /Pipeline Repair Workshop - Columbus, OH

Transmission/Distribution Operations Conference - held annually; Round Table format for Operator discussion

Offshore Operations Conference - held annually; Round Table format for Operator discussion on offshore pipeline issues

Southeast Regional Gas Conference - held annually for gas operators in the Southeast region of the U.S.

Pipeline Integrity management - Web conference series - ongoing

Banff Pipeline Workshop

Spring of odd years in Banff, AB - highly attended by US Operators and regulators

International Pipeline Conference

Fall of even years in Calgary, AB - highly attended by US Operators and regulators

Over 20 events per year

Existing Standards

- European Pipeline Operator Forum (P.O.F.) Reporting Standard
- NACE TR 35100 – ILI Technologies
- NACE RP0102 – ILI Process

New Environment with IMP means New and Enhanced Standards

- ILI Systems Qualification, API 1163
- ILI Personnel Qualification, ASNT ILI-PQ
- ILI Process, enhancement of NACE RP0102

.. Improved Communication

.. Improved Transparency

.. Improved Understanding

.. Improved Confidence

Industry Guidance: Associations



www.ppsaonline.com

inline inspection association

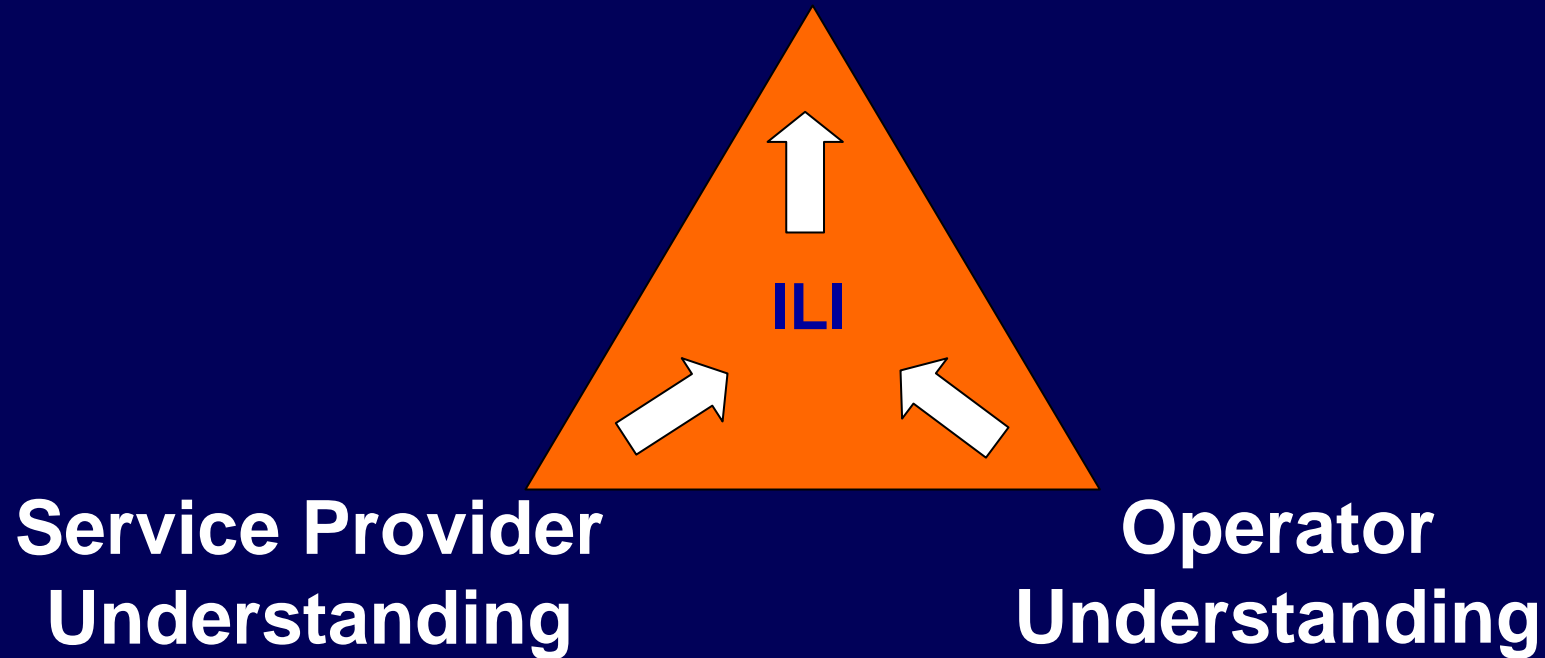


www.iliassociation.org

Recognized Gaps

- **ILI Service Providers take a more active role in determining Operators Understanding of offered ILI Methodologies.**
- **Operators disclose the Expectations of the ILI Service Provider through the RFP/RFQ process.**
- **Improved, and more timely, feedback between ALL stakeholders.**
- **Improved Communications among ALL stakeholders.**

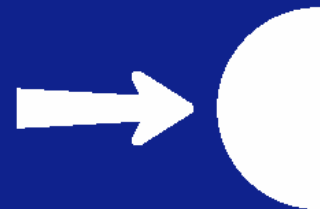
Confidence



Working together to Ensure Confidence in ILI Methodologies and to ensure Safe, Reliable and Economic operation of pipelines and pipeline systems.

Thank You.

ROSEN



Inspection Technologies
www.RosenInspection.net